



American Concrete Institute®
Advancing concrete knowledge

ERRATA as of July 19, 2012
Proportions for Normal, Heavyweight, and Mass Concrete
ACI 211.1-91 (Reapproved 2009)
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Reported by ACI Committee 211

Example 6.3.4.2, page 11, in 2nd part of equation parentheses removed from {3.15} and {2.40}, 0.80) changed to (1.02), and in 3rd part of equation a “+” sign changed to “=”. Equation revised from:

$$\begin{aligned}\frac{w}{c+p} &= \frac{3.15\left(\frac{w}{c}\right)}{3.15(1-F_v) + G_p(F_v)} \\ &= \frac{(3.15)(0.60)}{(3.15) 0.80) + (2.40)(0.20)} \\ &+ \frac{1.89}{2.52 + 0.48} = \frac{1.89}{3.00} = 0.63\end{aligned}$$

to:

$$\begin{aligned}\frac{w}{c+p} &= \frac{3.15\left(\frac{w}{c}\right)}{3.15(1-F_v) + G_p(F_v)} \\ &= \frac{(3.15)(0.60)}{3.15 (1-0.2) + 2.40(0.20)} \\ &= \frac{1.89}{2.52 + 0.48} = \frac{1.89}{3.00} = 0.63\end{aligned}$$

Provisions A1.5.3 to A1.5.3.9.2, and Table A1.5.3.1, page 21, revised from:

~~A1.5.3~~**A1.6.3**

~~A1.5.3.1~~**A1.6.3.1**

TABLE A1.5.3.1~~A1.6.3.1~~

~~A1.5.3.2~~**A1.6.3.2**

~~A1.5.3.3~~**A1.6.3.3**

~~A1.5.3.4~~**A1.6.3.4**

~~A1.5.3.5~~**A1.6.3.5**

~~A1.5.3.6~~**A1.6.3.6**

~~A1.5.3.7~~**A1.6.3.7**

~~A1.5.3.9~~**A1.6.3.9**

~~A1.5.3.9.1~~**A1.6.3.9.1**

~~A1.5.3.9.2~~**A1.6.3.9.2**

Table A1.6.3.1 (was A1.5.3.1), page 21, “Mass concrete” type of construction maximum slump revised as:

**TABLE A1.6.3.1 (was A1.5.3.1) – RECOMMENDED SLUMPS
FOR VARIOUS TYPES OF CONSTRUCTION (SI)**

Types of construction	Slump, mm	
	Maximum*	Minimum
Reinforced foundation walls and footings	75	25
Plain footings, caissons, and substructures walls	75	25
Beams and reinforced walls	100	25
Building columns	100	25
Pavements and slabs	75	25
Mass concrete	~~75~~ 50	25

*May be increased 25 mm for methods of consolidation other than vibration

A1.6.3.3 (was A1.5.3.3), page 21 revised as:

Step 3. Estimation of mixing water and air content -- See Table ~~A1.5.3.3~~**A1.6.3.3**.

A1.6.3.4 (was A1.5.3.4), page 21 revised as:

Step 4. Selection of water-cement ration -- See Table ~~A1.5.3.4~~**A1.6.3.4(a)**.

A1.6.3.6 (was A1.5.3.6), page 21 revised as:

Step 6. Estimation of coarse aggregate content -- The dry mass of coarse aggregate required for a cubic meter of concrete is equal to the value from Table ~~A1.5.3.6~~**A1.6.3.6** multiplied by the dry-rodded unit mass of the aggregate in kilograms per cubic meter.

A1.6.3.9.2 (was A1.5.3.9.2), page 21 revised as:

To adjust for the effect of incorrect air content in a trial batch of air-entrained concrete on slump, reduce or increase the mixing water content of ~~A1.5.3.9.1~~**A1.6.3.9** by ... trial batch.